7700103

THE UNITED SHAMES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COMES

Rogers Brothers Seed Company

Takereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT LETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

BEAN

'Vitagreen'

In Testimony Minercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 18th day of May in the year of our Lord one thousand nine hundred and seventy-eight

Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

(DATE)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Ia. TEMPORARY DESIGNATION OF VARIETY	16. VARIETY NAME		FOR OFFICIAL USE ONLY		
GP 73102	VITAGREEN (VITAGREEN (Proposed) 3. GENUS AND SPECIES NAME		7700/03	
, KIND NAME	3. GENUS AND SPE			10:00 A.M.	
SNAP BEAN	Phaseolus vu	Phaseolus vulgaris		DATE	
FAMILY NAME (BOTANICAL)		5. DATE OF DETERMINATION \$ 250.00 \$ 250.00		6-20-77	
Leguminoseae	Fall, 1973		\$ 850.00	5-5-78	
NAME OF APPLICANT(S)	7. ADDRESS (Street a	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)		8. TELEPHONE AREA CODE AND NUMBER	
GERS BROTHERS SEED COMPANY	P. O. Box Idaho Fal	1647 ls, Idaho 834	01	208-522-0143	
 IF THE NAMED APPLICANT IS NOT A PI ORGANIZATION: (Corporation, partnership 		10. IF INCORPORA DATE OF INCO	FED, GIVE STATE AND RPORATION	11, DATE OF INCOR- PORATION	
Corporation 12. Name and mailing address of appli		Delawa		1975	
<u> </u>	CHMENT SUBMITTED:	Car Santian E	2 of also Disease Disease D		
Idano Falls, Idano 63401 13. CHECK BOX BELOW FOR EACH ATTA X 13A. Exhibit A, Origin and Bree x 13B. Exhibit B, Novelty Statem X 13C. Exhibit C, Objective Description X 13D. Exhibit D, Additional Description	CHMENT SUBMITTED: ding History of the Valent. ription of the Variety (Request form from		·	
13. CHECK BOX BELOW FOR EACH ATTA X 13A. Exhibit A, Origin and Bree x 13B. Exhibit B, Novelty Statem X 13C. Exhibit C, Objective Description	chment submitted: ding History of the Valent. ription of the Variety (cription of the Variety) ed of this variety be se	Request form from	Plant Variety Protection	office.)	
13A. Exhibit A, Origin and Bree 13B. Exhibit B, Novelty Statem X 13C. Exhibit C, Objective Descr X 13D. Exhibit D, Additional Description 14A. Does the applicant(s) specify that so (See Section 83(a). (If "Yes," ansi	chment submitted: eding History of the Valent. ription of the Variety (scription of the Variety) eed of this variety be sover 14B and 14C below his variety be	(Request form from old by variety name out	Plant Variety Protection only as a <u>class</u> of certifie	d seed?	
13A. Exhibit A, Origin and Bree 13B. Exhibit B, Novelty Statem 13C. Exhibit C, Objective Descr 13D. Exhibit D, Additional Description 14A. Does the applicant(s) specify that so (See Section 83(a). (If "Yes," ansulate. 14B. Does the applicant(s) specify that the second section 14B.	chment submitted: eding History of the Valent. ription of the Variety (scription of the Variety) eed of this variety be sover 14B and 14C below his variety be	(Request form from old by variety name v.) If "Yes," to 14B,	Plant Variety Protection only as a class of certifie YES X NO	d seed?	
13A. Exhibit A, Origin and Bree 13B. Exhibit B, Novelty Statem X 13C. Exhibit C, Objective Descr X 13D. Exhibit D, Additional Description 14A. Does the applicant(s) specify that so (See Section 83(a). (If "Yes," ansulate. 14B. Does the applicant(s) specify that the section 14B.	chment submitted: ding History of the Valent. ription of the Variety (scription of the Variety) eed of this variety be sover 14B and 14C below his variety be 14C; YES NO	(Request form from 7. old by variety name [] If "Yes," to 14B, breeder seed? FOUNDATION	Plant Variety Protection only as a class of certifie YES X NO how many generations o	of office.) In office.) In office.) In office.) In office.) In office.)	
13. CHECK BOX BELOW FOR EACH ATTA X 13A. Exhibit A, Origin and Bree X 13B. Exhibit B, Novelty Statem X 13C. Exhibit C, Objective Descr X 13D. Exhibit D, Additional Des 14A. Does the applicant(s) specify that so (See Section 83(a). (If "Yes," anso 14B. Does the applicant(s) specify that to limited as to number of generations [15. Does the applicant(s) agree to the point 16. The applicant(s) declare(s) that a value a certificate and will be replenished. The undersigned applicant(s) is (a variety is distinct, uniform, and so	chment submitted: ding History of the Valuent. ription of the Variety (cription of the Variety (cription of the Variety be sover 14B and 14C below his variety be 14C; YES NO publication of his/her (cription of the variety be 14C; The periodically in according to the owner(s) of the variety of the variety in according to the owner(s) of the variety in according to the owner(s) of the variety of the variety in according to the owner(s) of the variety	(Request form from old by variety name v.) If "Yes," to 14B, breeder seed? FOUNDATION their) name(s) and a eed of this variety we lance with such regulars sexually reproduct	Plant Variety Protection only as a class of certifie YES X NO how many generations of MEGISTERED ddress in the Official Jou	of office.) In office.) In of production beyond In our case of the control of	
13A. Exhibit A, Origin and Bree 13B. Exhibit B, Novelty Statem X 13B. Exhibit C, Objective Description (S) 13D. Exhibit D, Additional Description (See Section 83(a). (If "Yes," ansulate. Does the applicant(s) specify that the limited as to number of generations. 14B. Does the applicant(s) specify that the limited as to number of generations. 15. Does the applicant(s) agree to the position of the applicant (s) that a value a certificate and will be replenished. The undersigned applicant(s) is (a variety is distinct, uniform, and strion 42 of the Plant Variety Act.	chment submitted: ding History of the Valuent. ription of the Variety (scription of the Variety (scription of the Variety be sover 14B and 14C below his variety be sover 14B and 14C below his variety be soublication of his/her (simple sample of basic sold periodically in accordance) the owner(s) of the table as required in Secretary.	Request form from old by variety name v.) If "Yes," to 14B, breeder seed? FOUNDATION their) name(s) and a eed of this variety w lance with such regu is sexually reproducted to the second to the	only as a class of certified NES NO how many generations of the Official Journal of the Deposited upon reclations as may be applicated novel plant variety, itled to protection under	of office.) In office.) In office.) In production beyond In certified In certifie	
13. CHECK BOX BELOW FOR EACH ATTA X 13A. Exhibit A, Origin and Bree X 13B. Exhibit B, Novelty Statem X 13C. Exhibit C, Objective Descr X 13D. Exhibit D, Additional Des 14A. Does the applicant(s) specify that so (See Section 83(a). (If "Yes," anso 14B. Does the applicant(s) specify that to limited as to number of generations [15. Does the applicant(s) agree to the point 16. The applicant(s) declare(s) that a value a certificate and will be replenished. The undersigned applicant(s) is (a variety is distinct, uniform, and so	chment submitted: ding History of the Valuent. ription of the Variety (scription of the Variety (scription of the Variety be sover 14B and 14C below his variety be sover 14B and 14C below his variety be soublication of his/her (simple sample of basic sold periodically in accordance) the owner(s) of the table as required in Secretary.	Request form from Old by variety name (v.) If "Yes," to 14B, breeder seed? FOUNDATION their) name(s) and a eed of this variety we lance with such regulation 41, and is entering the control of the	only as a class of certified NES NO how many generations of the Official Journal of the Deposited upon reclations as may be applicated novel plant variety, itled to protection under	of office.) In of	

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give (1), the genealogy, including public and commerical varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C.
 Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

VITAGREEN

Snap Bean

EXHIBIT A

Origin and Breeding History of the Variety

VITAGREEN, a mid to late season, green podded garden bean was derived from the following hand-pollinated cross:

(USDA B3125-X-5-2) (USDA 1343) X (OSU 58)

The above cross was made during the Fall of 1967 and the following series of subsequent selections were made:

YEAR	<u>GENERATI</u>	ON FIELD PLOT	AMOUNT <u>HARVESTE</u> D	- ;
1968	F_1	681204	2 Ounces	
1969	F_2	691192	Single plant	selection
1969-1970	(Green- F ₃ house)		Single plant	selection increase
1970	F4	701087	4 Single plan	t selections
1970-1971	(Green- F5 house)		Single plant	selection "A" increase
1971	F ₆	71969	2 single plan	t selections
1972	F ₇	72642	28 ounces	
1973	F7 B	ulk 73102	2 pounds	
1973	F7 B	ulk 73498	20 pounds	

The harvested seed of plots 73102 and 73498 has been multiplied each consecutive year since 1973 and has been increased to an adequate quantity for commercial sale. Eight single plant selections were harvested from the original VITAGREEN line during the 1975 season and these are being increased as pure line stocks to maintain the variety.

Variant types occurring in VITAGREEN have consisted of approximately one flat pod rogue per 1800 plants and one string pod rogue per 137.000 plants.

VITAGREEN

Snap Bean

EXHIBIT B

Date Indicative of Novelty

VITAGREEN is most similar to Early Gallatin, but the pod color is darker green and is a more blue-green color. VITAGREEN pods have slower seed and fiber development and will yield about 5% to 10% more pods that are of the five sieve size or larger. VITAGREEN is resistant to Summer Death, a virus disease common to Australia, while Early Gallatin is not.

FORM GR-470-12 (11-15-72)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

(Bean)

GRAIN DIVISION

HYATTSVILLE, MARYLAND 20782

INSTRUCTIONS: See Reverse.

OBJECTIVE DESCRIPTION OF VARIETY REAN (PHALEOLUS VIII CARIS)

BEAN (PHALEULUS VULGARIS)	
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
ROGERS BROTHERS SEED COMPANY ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	7700103
P. O. Box 1647	VARIETY NAME OR TEMPORARY
Idaho Falls, Idaho 83401	DESIGNATION
Planeta	VITAGREEN
Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or 9 or less.	ow.
1. TYPE:	
<u></u>	ULTIPURPOSE
2. SEASON AND REGION OF ADAPTABILITY IN THE U.S.:	
Grows best during: 1 = SPRING 2 = SUMMER 3 = FALL	4 = WINTER
Best adapted in: 1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORT 5 = SOUTHWEST 6 = MOST REGIONS	HEAST 4 = SOUTHEAST
3. MATURITY (Days from seeding to first harvest):	
6 0 GREEN PODS 7 0 GREEN SHELLS 9 8	DRY SEEDS
0 1 NO. DAYS EARLIER THAN 1) 1 = TENDERCROP 2 = KEN	ITUCKY WONDER 3 = KINGHORN WAY
	ITUCKY WONDER 3 = KINGHORN WAX HELITE 62 6 = DWARF HORTI -
0 4 NO. DAYS LATER THAN 3) 7 = BUSH BLUE LAKE 8 = OTH	
4. PLANT:	
1 = DETERMINATE, ERECT BUSH 2 = DETERMINATE, SPI 3 = DETERMINATE, SEMIPOLE 4 = INDETERMINATE, F	RAWLING BUSH
0 4 6 CM. HEIGHT OR LENGTH OF VINE FROM PRIMARY LEAF NODE	
0 0 3 NUMBER PRIMARY BRANCHES PER MAIN STALK	CM. SPREAD
2 Branching habit: 1 = COMPACT 2 = OPEN 0 5	NUMBER INTERNODES ON MAIN STALK BETWEEN PRIMARY LEAF AND BASE OF TERMINAL INFLORESCENCE
0 2 CM. LENGTH OF FIRST INTERNODE ABOVE PRIMARY LEAF 0	MM. STALK DIAMETER ABOVE
1 Main stalk: 1 = BRITTLE 2 = WIREY 1 1. STOUT 2. THIN	FIRST TRIFOLIATE LEAF
2 Flower position:	
Pod Position: 1 = LOW, CONCENTRATED 2 = HIGH, CONCENTRATE	D 3 = SCATTERED
5. LEAVES:	***************************************
2^{2} 1 = SMOOTH 2 = WRINKLED 1 = DULL 2 = GLOSSY 2 Th	ickness: 1 = THIN 2 = MEDIUM 3 = THICK
	M. PETIOLE LENGTH To basal leaflets of first trifoliate leaf)
Tip shape of center leaflet: 1 = ROUNDED 2 = TAPER POINTED 3 = SHA	ARP POINTED
2 PUBESCENCE - Dorsal:	F A
	NSIDER ABLE 4
2 Color: 1 = LIGHT GREEN (Bountiful) 2 = MEDIUM GREEN 3 = DARK GREEN (B	ush Blue Lake)

VITAGREEN

Snap Bean

EXHIBIT D

Botanical Description of the Variety

VITAGREEN is a mid to late season green podded snap bean variety that reaches green harvest stage in approximately 60 days, which is comparable to the season of the variety, Early Gallatin. The bush of VITAGREEN is erect and the width is about equal to the height. It has a moderately branching bush which holds the pods off the ground well and towards the periphery of the plant, making it well adapted to mechanical harvesting. The bush closely resembles that of Early Gallatin, but has slightly larger leaves. The pods are typically 13 to 14 cm long, and are quite round at prime green processing stage, but tend to become moderately creasebacked as they become more mature. The pod color of VITAGREEN is slightly darker than that of Early Gallatin and has a more bluegreen hue as compared to the more yellow-green hue of Early Gallatin. Fiber and seed development are slower in VITAGREEN than in Early Gallatin and are more typical of the Blue Lake pod type in this regard. The seedcoat color of VITAGREEN at the mature, dry seed stage is white.

EXHIBIT C

(Bean)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

URAL MARKETING SERVICE
GRAIN DIVISION

HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: See Reverse.

BEAN (PHALEOLUS VULGARIS)

	SEAN (FITALEOLOS VOLGARIS)	<u> </u>
NAME OF APPLICANT(S)	G0150 1277	FOR OFFICIAL USE ONLY
ROGERS BROTHERS SEED ADDRESS (Street and No. or R.F.D. No., City, State, an		7700103
P. O. Box 1647	·	VARIETY NAME OR TEMPORARY
Idaho Falls, Idaho 8	3401	DESIGNATION
		VITAGREEN
Place the appropriate number that describes the varietal	character of this variety in the boxes bel	ow.
Place a zero in first box (e.g. 0 8 9 or 0 9) when	n number is either 99 or less or 9 or less	
r—1		
1 1 = SNAPBEAN 2 = GREEN SHELL		ULTIPURPOSE
2. SEASON AND REGION OF ADAPTABILITY IN THE	U.S.:	
Grows best during: 1 = SPRING 2	= SUMMER 3 = FALL	4 = WINTER
Best adapted in: 1 = NORTHWEST 2 5 = SOUTHWEST 2	= NORTHCENTRAL 3 = NORT 6 = MOST REGIONS	HEAST 4 = SOUTHEAST
3. MATURITY (Days from seeding to first harvest):		
6 0 GREEN PODS 7 0	GREEN SHELLS 9 8	DRY SEEDS
0 1 NO. DAYS EARLIER THAN 1)	_
	\ .	ITUCKY WONDER 3 = KINGHORN WAX HELITE 62 6 = DWARF HORT!
0 4 NO. DAYS LATER THAN 3	7 = BUSH BLUE LAKE 8 = OTH	
4. PLANT:	<u></u>	i.e.k (specify)
1 = DETERMINATE, ERECT BUSH 3 = DETERMINATE, SEMIPOLE	2 = DETERMINATE, SP; 4 = INDETERMINATE, F	RAWLING BUSH
0 4 6 CM. HEIGHT OR LENGTH OF VINE FRO	DM PRIMARY LEAF NODE	
		- 1
0 0 3 NUMBER PRIMARY BRANCHES PER MA	IN STALK	CM. SPREAD
2 Branching habit: 1 = COMPACT 2 = OPEN	0 5	NUMBER INTERNODES ON MAIN STALK BETWEEN PRIMARY LEAF AND BASE OF TERMINAL INFLORESCENCE
0 2 CM. LENGTH OF FIRST INTERNODE ABOVE	PRIMARY LEAF . 0	MM. STALK DIAMETER ABOVE
1 Main stalk: 1 = BRITTLE 2 = WIREY 1	1. STOUT 2. THIN	J FIRST TRIFOLIATE LEAF
2 Flower position:		
Pod Position:	RATED 2 = HIGH, CONCENTRATE	D 3 = SCATTERED
5. LEAVES:		
2^{1-2} 1 = SMOOTH 2 = WRINKLED	1 = DULL 2 = GLOSSY 2 Thi	ckness: 1 = THIN 2 = MEDIUM 3 = THICK
3 Size: 1 = SMALL (Earliwax) 2 = MEDIUM	3 = LARGE (Tendercrop) CM	1. PETIOLE LENGTH
Tip shape of center leaflet: 1 = ROUNDED	0	o basal leaflets of first trifoliate leaf) RP POINTED
PUBESCENCE - Dorsal:		irc.
1 PUBESCENCE - Ventral:	2 = SLIGHT 3 = CON	SIDERABLE 4
Color: 1 = LIGHT GREEN (Bountiful) 2 = ME	DIUM GREEN 3 = DARK GREEN (B	ush Blue Lake)

FORM GR-470-12 (PAGE 3 OF 3 PAGES)						
10. ANTHOCYANIN: (7 = Absent 2 = Present):						
1	FLOWERS	1 STEMS	1 Pobs		1 SEEDS	1 LEAVES
11.	DISEASE RESISTAI	NCE (0 = Not tested; 1:	= Susceptible; 2 = Re	si stan	1) :	
	•					
	RUST (Specify re-	-ce)		\sqcup	ANGULAR LEAF SPOT	
	BACTERIAL WIL	т		2X	COMMON BEAN MOSAIC	184
	ANTHRACNOSE				YELLOW BEAN MOSAIC	7/4/24
	SOUTHERN BEA	N MOSAIC			FUSARIUM ROOT ROT	
	CURLY TOP			2x	N.Y. 15 BEAN MOSAIC	
	POWDERY MILDS	EW			BEAN MOSAIC VIRUS 4	
	HALO BLIGHT				FUSCOUS BLIGHT	
	ALFALFA MOSAI	IC VIRUS			ALFALFA MOSAIC VIRUS 2	
	POD MOTTLE VI	RUS			RED NODE VIRUS	
	ROOT KNOT NEM	MATODE			OTHER (Specify) Summer	Death
12.	INSECT RESISTAN	CE: (0 = Not tested; 1 =	Susceptible; 2 = Resi	stant)		
	APHIDS				LEAF HOPPERS	
	POD-BORER				LYGUS	
	THRIPS				WEAVILS	
	SEED CORN MAG	GGOT			OTHER (Specify)	
13. F	HYSIOLOGICAL R	ESISTANCE: (0 = Not tes	ted; 1 = Susceptible;	2 = Re	sistant)	
	HEAT	COLD	DROÚG	нт	OTHER (Specify)	
REFERENCES: The following publications may be used as a reference in completing this form:						
 Beans of New York. Vol. 1 Part II of Vegetables of New York. U.P. Hedrick et al. J. B. Lyon Company, Albany, N.Y. 1931. 						
2. Yarnell, S. H., Cytogenetics of the Vegetable Crops IV. Legumes. Bot. Rev. 31:247 - 330. 1965.						
3. USDA Yearbook of Agriculture. 1937.						
COLOR: Nickerson's or any recognized color fan may be used to determine the colors.						
						5 6